



Department of Life Sciences and Systems Biology Zoological Laboratory



<u>Co-ordinators</u>: Prof. Emilio Balletto Dr. Simona Bonelli

<u>Team</u>: Francesca Barbero Luca Pietro Casacci Cristiana Cerrato



Laufen, 1-3 December 2014

UPDATES...



In Italy we have no



in Europe

Inaugural Meeting - Laufen, 29-31 October 2007 Bavarian Academy for Nature Conservation and Landscape Management (ANL)



ENVIRONMENTAL EDUCATION Increase public awareness and knowledge about environmental issues (school, University, local people).



RESEARCH Sceintific research in Natural Park areas. (At the moment in one National Park and in two Regional Parks in Puglia)



ECO-TOURISM Bio-cultural travel in natural areas in South Italy





THE ITALIAN BUTTERFLY FAUNA

Includes **287** butterfly species, assigned to **79 genera** and **9 families** or subfamilies.

It represents **37%** of the total Euro-Mediterranean fauna.

At a national level, butterfly biodiversity is **higher** in **northern** Italy, particularly in the Alps and pre-Alps, than in the Apennines and in the main Italian islands.

Balletto et al. 2005



van Swaay & Warren 2003

ITALIAN DATASET

The Italian Ministry for the Environment has published a preliminary distribution atlas for 10,000 animal species, mapped on a 10x10 Km UTM grid:

CKmap Project (Balletto et al. 2007)

Our team was involved in this project for the parts concerning the Papilionoidea and the Zygaenoidea.

Data included in this database are from the literature and museum collections. This data set is continuosly updated and currently includes well over 190,000 non-duplicated individual records.



ITALIAN DATASET



European Red List of Butterflies



We cooperated to the projects:

- Butterfly Prime Areas (Van Swaay et al. 2003)
- IUCN Red Data Book (Van Swaay et al. 2010)
- IUCN Red List Assessment of Mediterranean Butterflies (Malaga 2013)

We are working on the Italian Red List as expert hired by the Environment Ministry



ITALIAN BUTTERFLIES

Annual 385 (1) 406-114 www.sapros.com/orders/ Cognight © 2014 Magnelia Press





http://dx.doi.org/10.1014/6.noracia_2053.3.3 http://axilanik.org/act.bid/axilanik.org/pub/08012701-5105-4000-900-025502001256

ZOOTAXA



An annotated Checklist of the Italian Butterflies and Skippers (Papilionoidea, Hesperiioidea)

EMILIO BALLETTO, LUIGI A. CASSULO & SIMONA BORELLE Department of hij Status en auf Jonese Buildigs, Far Accadence Alternae 13, 174723 Torius, Baly "Companding andre E-mail: investige-bardling-bardling-bard



Magnolia Press Auckland, New Zealand Check list of the Italian Butterflies (Hesperoidea and Papilionoidea)

 First edition Balletto Emilio & Cassulo Luigi 1995

 Second edition Balletto Emilio, Cassulo Luigi & Bonelli Simona 2014 (Zootaxa: 114 pp)

Accepted by C. Prins: 19 Apr. 2014; published: 20 Aug. 2014

17 Habitat Directive Species (9 in Annex II and IV but *L. helle* is extinct; 7 in Annex IV, 1 (*E. aurinia*) in Annex II)

We are involved in drawing national or regional Action Plans for HD species or endangered

Coenonympha oedippus		Maculinea arion
Euphydryas aurinia (glaciege	enita/provincialis)	Melitaea britomartis
Euphydryas maturna	Zerynth	nia cassandra/polyxena
OPEN BACCESS Freely available online		
When the Rule Becomes the Gene Flow between Two Ze Suggests the Emergence of Francesca Zinetti ¹ , Leonardo Dapporto ²⁺³ , Alessio Emilio Balletto ³ , Claudio Ciofi ¹	<i>rynthia</i> Cryptic Butterflies a New Model Group	
3 Dipartimento di Scienze della Vita e Biologia dei Sistemi, Università degli s	J Insect Conserv DOI 10.1007/s10841-014-9662-4	
explained by unfa by Optimal Interr	ORIGINAL PAPER	
Cristiana Cerrato · Simona l Nicola Loglisci · Emilio Balle	Mobility and oviposition site-sele (Lepidoptera, Papilionidae): imp Alessio Vovlas · Emilio Balletto · Enrico Altini ·	

Daniela Clemente · Simona Bonelli

Assessment art 17 DH, 2007-2012



SC Prospettive future - Lepidotteri







Specie e habitat di interesse comunitario in Italia: distribuzione, stato di conservazione e trend



http://www.barcodingitalianbutterflies.eu





Sustainable use of pesticide Directive 2009/128/EC
January 2014 Italian LEX WP: Reduce pesticides in 2000 Nature sites Guidelines (*ITALIAN only!*)

Rural Development Scheme (CAP) - Regional





Thank you!!

Our group in Turin: Emilo Balletto Simona Bonelli Francesca Barbero Magdalena Witek Luca P. Casacci Cristiana Cerrato Dario Patricelli Alessio Vovlas Marco Sala

